## **Claims**

[1]	A light emitting device comprising:
	a light emititng chip; and
	a phosphor through which a first light emitting from the light emitting chip passes,
	wherein the phosphor comprises a first silicate phosphor exciting a second light
	having a first centered emission peak using the first light and a second silicate
	phosphor exciting a third light having a second centered emission peak using the
	first light.
[2]	The light emitting device according to claim 1, wherein the first centered
	emission peak is in a range of 550 - 600 nm.
[3]	The light emitting device according to claim 1, wherein the second centered
	emission peak is in a range of 500 - 550 nm.
[4]	The light emitting device according to claim 1, wherein the first silicate phospho
	has a chemical formula of Sr3-xSiO5: $Eu^{2+} \times (0 < x \le 1)$ .
[5]	The light emitting device according to claim 1, wherein the second silicate
	phosphor has a chemical formula selected from the group consisting of Ba2-x
	SiO4:Eu <sup>2+</sup> x (0.001 $\le$ x $\le$ 1), Ca1-xMgSi2O7:Eu <sup>2+</sup> x (0.001 $\le$ x $\le$ 1) and Sr2-x
	$SiO4:Eu^{2+} \times (0.001 \le x \le 1).$
[6]	The light emitting device according to claim 1, wherein the first silicate phospho
	and the second silicate phosphor exist at a ratio of 1:1 to 1:9 or 9:1 to 1:1.
[7]	The light emitting device according to claim 1, wherein the phosphor has a
	particle size of $d90 \le 20  \square$ , $5 \le d50 \le 10  \square$ .
[8]	The light emitting device according to claim 1, wherein the light emitting chip
roı	emits blue light.
[9] [10] [11]	The light emitting device according to claim 1, wherein the phosphor is molded
	in a periphery of the light emitting chip or on the light emitting chip.
	The light emitting device according to claim 1, wherein the phosphor is man-
	ufactured by mixing the phosphor with a light transmitting resin.
	The light emitting device according to claim 10, wherein the resin is an epoxy resin or a silicon resin.
[12] [13]	
	The light emitting device according to claim 1, wherein the first silicate phosphor is a yellow series and the second silicate phosphor is a green series.
	A phosphor of a light emitting device, comprising:
[13]	
	a first silicate phosphor excited by a light generated by a light emitting chip and having a chemical formula of Sr3-xSiO5:Eu <sup>2+</sup> x (0 < x $\leq$ 1); and
	a second silicate phosphor excited by the light generated by the light emitting
	a second sineate phosphol excited by the light generated by the light emitting

WO 2005/098972 PCT/KR2005/001008

chip and having a chemical formula selected from the group consisting of Ba2-x SiO4:Eu<sup>2+</sup> x (0.001  $\le$  x  $\le$  1), Ca1-xMgSi2O7:Eu<sup>2+</sup> x (0.001  $\le$  x  $\le$  1) and Sr2-x SiO4:Eu<sup>2+</sup> x (0.001  $\le$  x  $\le$  1).

- [14] A ligth emitting device comprising:
  - a substrate;
  - a light emitting chip emitting a light;
  - a connection part for electrically connecting the substrate with the light emitting chip;
  - a phosphor encapsulating the light emitting chip and through which the light passes;
  - a first silicate phosphor contained in the phosphor and having a chemical formula of Sr3-xSiO5: $Eu^{2+} \times (0 < x \le 1)$ ; and
  - a second silicate phosphor contained in the phosphor and having a chemical formula selected from the group consisting of Ba2-xSiO4: $Eu^{2+} \times (0.001 \le x \le 1)$ , Ca1-xMgSi2O7: $Eu^{2+} \times (0.001 \le x \le 1)$  and Sr2-xSiO4: $Eu^{2+} \times (0.001 \le x \le 1)$ .
- [15] The light emitting device according to claim 14, wherein when the light emitting device is a top view type, the first silicate phosphor and the second silicate phosphor exist at a ratio of 1:2 to 1:3.
- The light emitting device according to claim 14, wherein when the light emitting device is a side view type, the first silicate phosphor and the second-based phosphor exist at a ratio of 1:3 to 1:4.
- [17] A ligth emitting device comprising:
  - a leadframe;
  - a light emitting chip emitting a light;
  - a connection part for electrically connecting the leadframe with the light emitting chip;
  - a phosphor encapsulating and molding the light emitting chip and through which the light passes;
  - a first silicate phosphor contained in the phosphor and having a chemical formula of Sr3-xSiO5: $Eu^{2+} \times (0 < x \le 1)$ ; and
  - a second silicate phosphor contained in the phosphor and having a chemical formula selected from the group consisting of Ba2-xSiO4:Eu<sup>2+</sup> x (0.001  $\le$  x  $\le$  1), Ca1-xMgSi2O7:Eu<sup>2+</sup> x (0.001  $\le$  x  $\le$  1) and Sr2-xSiO4:Eu<sup>2+</sup> x (0.001  $\le$  x  $\le$  1).
- [18] A ligth emitting device comprising:
  - a light emitting chip emitting a light; and
  - a resin-based phosphor through which the light emitting from the light emitting chip passes;
  - wherein the phosphor comprises a yellow silicate phosphor exciting a second

WO 2005/098972 PCT/KR2005/001008

light having a first centered emission peak using the first light and a green silicate phosphor exciting a third light having a second centered emission peak using the first light, and the green silicate phosphor and the yellow silicate phosphor exist at a ratio of 1:2 to 1:5.

- [19] The light emitting device according to claim 18, wherein the phosphor is contained at a ratio of 15 30 wt% with respect to the base so as to emit white light.
- [20] The light emitting device according to claim 18, wherein the phosphor is contained at a ratio of 5 15 wt% with respect to the base so as to emit bluish light.